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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.56.as RHIC Zone 8z2 Sweep Checklist

Text Pages 2 through 4

C-A OPM Procedures in which this Attachment is used.
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4.56		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: _____
 Collider-Accelerator Department Chairman _____ Date _____

P. Ingrassia, W. MacKay

RHIC Zone 8z2 Sweep Checklist

Team Leader (TL) _____ Sweeper#2 (S2) _____

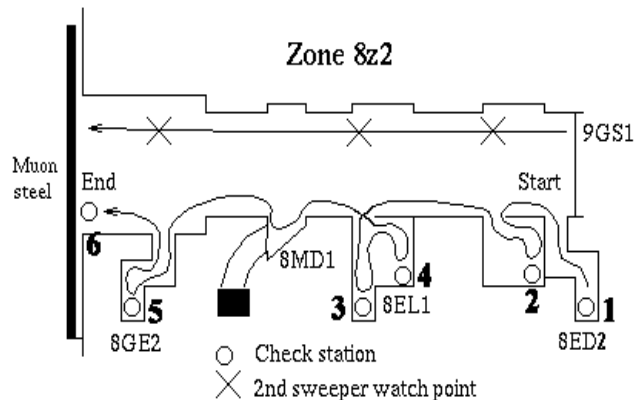
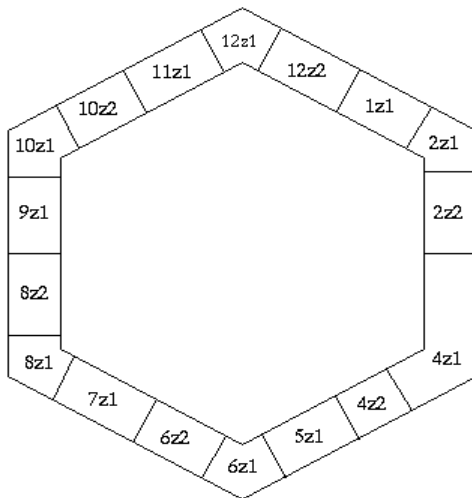
Time: _____ Date: _____

Warning:

IF any workers are encountered during the sweep, **THEN** contact the OC to see if the sweep should be aborted. Workers shall leave the enclosure **WITH** the sweep team. **IF** the workers crash out of the enclosure **AND** do not exit with the sweep team, **THEN** the sweep shall be re-started.

Prerequisites

- Two persons to perform the sweep,
- At least one sweeper not restricted from working at heights over five feet.
- RHIC Zone 8z2 Sweep Checklist (three pages)
- Required Tools: at least one flashlight,
- Walkie-talkies
- Approved padlocks (2) for 8MD1 gate and Vapor Barrier Gate.
- All Doors closed THEN 8z2 set to Controlled Access
- Keys: Sweep Reset key S/R015, Controlled Access key CA014, padlock key



Note:

References to positions in the tunnel are made using the RHIC magnets. The identity of the local magnet can be determined by looking up at the “lower” cable tray and reading the magnet name on a blue (B) or yellow (Y) label. For example, the convention used is: I05Q17 (Inside, Q17) or O-05Q17 (Outside, Q17). References are for inside locations and are visible only by the Team Leader

CONTINUED ON REVERSE SIDE

check

- ___ 1. Sweep team enters 8z2 after TL requests simultaneous release from MCR (8GE2 is the recommended entry door).
- ___ 2. TL opens 8GE2 gate by turning the CA014 key clockwise, in the Controlled Access key-switch while Operator in MCR presses simultaneous release for 8GE2.

Note:

8MD1 door MUST be reset before the sweep begins.

- ___ 3. TL verifies 8MD1 is RESET by looking for the amber reset lamp on the 8MD1 security boxes.
- ___ 4. IF the door is not reset, THEN TL shall open the door, walk to the orange door at the end of the tunnel, sweep back to 8MD1, close the door, and RESET the gate by turning the S/R015 key in the RESET keyswitch on the security box. TL observes amber RESET lamp light.

Note:

8MD1 is locked with an approved padlock supplied by the RHIC Access Control Group

- ___ 5 Sweep team walks Clockwise (CW) to 9GS1 at the far end of the 8z2 zone.
- ___ 6 S2 stands static watch at 9GS1.
- ___ 7 TL walks down labyrinth to 8ED2 door.
- ___ 8 TL resets gate 8ED2 using the S/R015 key in the RESET keyswitch .
- ___ 9 TL observes the yellow RESET lamp is lighted
- ___ 10 TL STARTS SWEEP by turning the S/R015 key CW in the SWEEP key-switch (8CS6)
- ___ 11 TL observes SWEEP lamp blink once.
- ___ 12 TL sweeps out the labyrinth and rejoins S2.
- ___ 13 TL stands static watch while S2 climbs yellow stairs and searches fan vents and the space above the cable trays.
- ___ 14 S2 returns to the outside 9GS1 and stands static watch.
- ___ 15 TL goes to check station 8CS5 in the B Alcove.
- ___ 16 TL sets second check station (8CS5) by turning S/R015 key in the SWEEP keyswitch.
- ___ 17 TL observes SWEEP lamp blink once.
- ___ 18 TL searches all the equipment racks, then sweeps out the alcove.
- ___ 19 TL rejoins S2.
- ___ 20 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___ 21 TL stops to check the Exhaust Fan Vent Barrier at I08Q17.
- ___ 22 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___ 23 S2 stands static watch at the electrical services alcove.
- ___ 24 TL goes to the ladder at 8EL1 in the alcove.
- ___ 25 IF there is no mirror to verify no one is on the landing at the top of the ladder, THEN TL must climb the ladder to verify no one is on the landing and to check that 8EL1 door is closed.
- ___ 26 TL resets gate 8EL1 using the S/R015key in the RESET keyswitch at the bottom of the ladder.
- ___ 27 IF 8EL1 will not reset THEN TL climbs the ladder, closes 8EL1, then repeats step 26.
- ___ 28 TL observes RESET lamp lights after RESET.
- ___ 29 TL sets third check station (8CS3) by turning S/R015 key in the SWEEP keyswitch.
- ___ 30 TL observes SWEEP lamp blink once.
- ___ 31 TL searches all the equipment racks, and sweeps to check station 8CS4 in the corner of the alcove

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- ___ 32 TL sets fourth check station (8CS4) by turning S/R015 key in the SWEEP keyswitch.
- ___ 33 TL observes SWEEP lamp blink once.
- ___ 34 TL sweeps out the alcove, and rejoins S2.
- ___ 35 TL confirms fan vent barrier is in place on the far side of the tunnel (above S2) and overhead barricade is in place.
- ___ 36 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___ 37 Sweep Team stops to check the inside and outside Exhaust Fan Vent Barriers at I-08DU7.
- ___ 38 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___ 39 Sweep team checks electrical alcoves at I08D5k and confirms overhead barricade is in place.
- ___ 40 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___ 41 S2 stands static watch opposite the labyrinth leading to 8GE2.
- ___ 42 TL walks down labyrinth to gate 8GE2.
- ___ 43 TL sets fifth check station 8CS2 by turning the S/R015 key SWEEP key in the SWEEP keyswitch on 8GE2-I
- ___ 44 TL observes the SWEEP lamp blink yellow.
- ___ 45 TL sweeps up the labyrinth and joins S2.
- ___ 46 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___ 47 Sweep Team checks inner and outer fan vent barriers at I08Q3 and the overhead barricade.
- ___ 48 TL stands static watch at I08Q3
- ___ 49 S2 sweeps Counter Clockwise (CCW) around RHIC.
- ___ 50 S2 checks fan vent barrier at I08Q1.
- ___ 51 S2 sweeps Counter Clockwise (CCW) around RHIC.
- ___ 52 S2 goes down the "outside" stairs and searches the dead zone, created by the PHOENIX muon steel, with a flashlight.
- ___ 53 S2 sweeps back up the stairs .
- ___ 54 S2 goes to the caged area at the end of the Dx magnet and sweeps the caged area from the outside of the cage. IF the door is unlocked then they will go in, sweep the cage, exit and padlock the door.
- ___ 55 S2 walks back to the 8GE2 labyrinth and stands static watch
- ___ 56 TL goes down the "inside" stairs and searches the dead zone, created by the PHOENIX muon steel.
- ___ 57 TL sweeps back up the stairs
- ___ 58 TL goes to the caged area at the end of the Dx magnet and sweeps the caged area from the outside of the cage. IF the door is unlocked then they will go in, sweep the cage, exit and padlock the door.
- ___ 59 TL sweeps to 8GE2 and rejoins S2.
- ___ 60 TL confirms upper wall duct cover in place
- ___ 61 TL walks to Vapor Barrier Gate, unlocks the padlock, opens the Vapor Barrier gate, searches the volume beyond the gate with a flashlight, closes and padlocks the Vapor Barrier gate.
- ___ 62 TL ENDS SWEEP by turning the S/R015 key SWEEP key in the SWEEP keyswitch on 8CS1.
- ___ 63 TL observes the yellow AREA SECURED ("check station") lamp is lighted
- ___ 64 Sweep Team sweeps to the 8GE2 labyrinth.
- ___ 65 Sweep Team sweeps down the labyrinth to 8GE2.
- ___ 66 TL contacts MCR for simultaneous release for gate 8GE2.
- ___ 67 Sweep Team sweeps out zone 8z2 through 8GE2.
- ___ 68 TL contacts MCR and confirms that gates are reset and 8z2 zone indicates sweep is good.

Note:

IF the AREA SECURED lamp is not lit THEN contact MCR to verify the sweep is good.

- ___ 69 After returning keys to keytree in MCR, TL resets the 8GE2 gate using the PanelView in MCR
- ___ 70 After verifying that all information is filled out completely, TL files the checklist in FY_xx Sweep Log binder.